

WHAT IS CLAIMED IS:

1. A power supply device comprising:
a plurality of power supply units, each of said power supply unit comprising:
5 a main power supply unit generating a load voltage supply to be supplied to a load;
a control unit informing the outside of the result of monitoring of each section; ¹¹²
10 a control power supply unit generating a controlling voltage to be supplied to the control unit;
wherein said power supply units being constituted as a parallel redundancy structure; and
wherein each of said control unit in the power supply units is parallel connected to the control power supply unit
15 in other power supply units in addition to the control power supply of the power supply unit thereof.

2. The power supply device according to claim 1 further comprising converting unit being inserted in the upstream side of the control unit, converting the inputted controlling voltage supply into a constant controlling voltage supply, and supplying the controlling voltage supply to the control unit.

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3. The power supply device according to claim 1 further comprising rush current prevention unit being provided in each downstream side of the main power supply unit, the control power supply unit, and the control unit so as to prevent a rush current from flowing in.

4. A power supply unit comprising:

a main power supply unit generating a load voltage supply to be supplied to a load;

10 a control unit informing the outside of the result of monitoring of each section;

a control power supply unit generating a controlling voltage to be supplied to the control unit;

15 wherein said power supply unit constituting a part of a parallel redundancy structure of a power supply device along with other power supply units; and

wherein said control unit is parallel connected to the control power supply unit in the other power supply units in addition to the control power supply unit of the power supply 20 unit thereof.

5. A power supply unit comprising:

a control unit informing the outside of the result of monitoring of each section;

25 a control power supply unit generating a controlling

voltage supply to be supplied to the control unit;

wherein said power supply unit constituting a part of a parallel redundancy structure of a power supply device along with other power supply units; and

5 wherein said control unit is parallel connected to the control power supply unit in the other power supply units in addition to the control power supply unit of the power supply unit thereof.

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